1. Add the current date to the text file today.txt as a string.

Ans=>

import datetime

with open("D:\\notebooks\ineuron\\assignments\\python\_basics\\today.txt", *mode*='w+') as file:

    file.write(str(datetime.datetime.now()))

2. Read the text file today.txt into the string today\_string

Ans =>

today\_string = open("D:\\notebooks\ineuron\\assignments\\python\_basics\\today.txt", *mode*='r')

3. Parse the date from today\_string.

Ans =>

from dateutil.parser import parse

today\_string = open("D:\\notebooks\ineuron\\assignments\\python\_basics\\today.txt", *mode*='r')

dt = parse(today\_string.read())

print(dt)

print(dt.strftime('%d/%m/%Y'))

4. List the files in your current directory

Ans =>

import os

arr = os.listdir()

print(arr)

5. Create a list of all of the files in your parent directory (minimum five files should be available).

Ans =>

import os

list = []

counter = 0

for file in os.listdir():

    if (counter == 5):

        break

    list.append(file)

    counter+=1

print(list)

6. Use multiprocessing to create three separate processes. Make each one wait a random number of seconds between one and five, print the current time, and then exit.

Ans =>

import multiprocessing

import time

*def* print\_cube(*num*):

    time.sleep(1)

    print("Cube: {}".format(*num* \* *num* \* *num*) + 'time=> '+time.ctime())

*def* print\_square(*num*):

    time.sleep(3)

    print("Square: {}".format(*num* \* *num*) + 'time=> '+time.ctime())

*def* print\_addition(*num*):

    time.sleep(6)

    print("Addition: {}".format(*num* + *num*) + 'time=> '+time.ctime())

if \_\_name\_\_ == "\_\_main\_\_":

    p1 = multiprocessing.Process(*target*=print\_square, *args*=(10, ))

    p2 = multiprocessing.Process(*target*=print\_cube, *args*=(10, ))

    p3 = multiprocessing.Process(*target*=print\_addition, *args*=(10, ))

    p1.start()

    p2.start()

    p3.start()

    p1.join()

    p2.join()

    p3.join()

    print("Done!")

7. Create a date object of your day of birth.

Ans =>

import datetime

x = datetime.datetime(1993, 12, 21)

print(x)

8. What day of the week was your day of birth?

Ans => Tuesday

import datetime

x = datetime.datetime(1993, 12, 21)

print(x.strftime("%A"))

9. When will you be (or when were you) 10,000 days old?

Ans =>in 2021 , 10220 days old

born\_year = 1993

days = 365 \*28

#year has 365 days

print(1993+28)

print(days)